

■ 首页 同方教程

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■ Spring Data JPA系列:应用查询提示(Applying query hints)

这一节讲应用查询提示,学这一节比较波折,文档上的介绍太简单了,而且面对示例不知道如何下手,所以拖了一下,才有点头绪。

对name和value的值我一直以为是自定义的,最后发现不完全是,是有一组定义好的值供我们

1、QueryHints源码如下:

```
* Hibernate, Relational Persistence for Idiomatic Java
 * License: GNU Lesser General Public License (LGPL), version 2.1
 * See the lgpl.txt file in the root directory or <http://www.
 */
package org.hibernate.jpa;
import java.util.HashSet;
import java.util.Set;
import static org.hibernate.annotations.QueryHints.CACHEABLE;
import static org.hibernate.annotations.QueryHints.CACHE MODE;
import static org.hibernate.annotations.QueryHints.CACHE REGION;
import static org.hibernate.annotations.QueryHints.COMMENT;
import static org.hibernate.annotations.QueryHints.FETCHGRAPH;
import static org.hibernate.annotations.QueryHints.FETCH SIZE;
import static org.hibernate.annotations.QueryHints.FLUSH MODE;
import static org.hibernate.annotations.QueryHints.LOADGRAPH;
import static org.hibernate.annotations.QueryHints.NATIVE LOCKMOD
import static org.hibernate.annotations.QueryHints.READ ONLY;
import static org.hibernate.annotations.QueryHints.TIMEOUT HIBERN
import static org.hibernate.annotations.QueryHints.TIMEOUT_JPA;
/**
 * Defines the supported JPA guery hints
 * @author Steve Ebersole
 */
public class QueryHints {
     * The hint key for specifying a query timeout per Hibernate
     * @deprecated use {@link #SPEC_HINT_TIMEOUT} instead
    @Deprecated
   public static final String HINT_TIMEOUT = TIMEOUT HIBERNATE;
    /**
     * The hint key for specifying a query timeout per JPA, which
```





```
public static final String SPEC HINT TIMEOUT = TIMEOUT JPA;
/**
 * The hint key for specifying a comment which is to be embed
public static final String HINT COMMENT = COMMENT;
/**
 * The hint key for specifying a JDBC fetch size, used when e
public static final String HINT FETCH SIZE = FETCH SIZE;
/**
 * The hint key for specifying whether the query results shou
 * "same query".
public static final String HINT CACHEABLE = CACHEABLE;
 * The hint key for specifying the name of the cache region (
 * to use for storing the query results.
 */
public static final String HINT CACHE REGION = CACHE REGION;
 * The hint key for specifying that objects loaded into the p
 * should be associated with the persistence context as read-
public static final String HINT READONLY = READ ONLY;
/**
 * The hint key for specifying the cache mode ({@link org.hib
 * execution of the hinted query.
public static final String HINT CACHE MODE = CACHE MODE;
/**
 * The hint key for specifying the flush mode ({@link org.hib
 * execution of the hinted query.
 */
public static final String HINT FLUSH MODE = FLUSH MODE;
public static final String HINT NATIVE LOCKMODE = NATIVE LOCK
 * Hint providing a "fetchgraph" EntityGraph. Attributes exp
 * FetchType.EAGER (via join fetch or subsequent select).
 * Note: Currently, attributes that are not specified are tre
 * on the attribute's definition in metadata, rather than for
 */
public static final String HINT FETCHGRAPH = FETCHGRAPH;
/**
 * Hint providing a "loadgraph" EntityGraph. Attributes expl
 * FetchType.EAGER (via join fetch or subsequent select). At
 * FetchType.LAZY or FetchType.EAGER depending on the attribu
public static final String HINT_LOADGRAPH = LOADGRAPH;
private static final Set<String&gt; HINTS = buildHintsSet(
```



```
private static Set<String&gt; buildHintsSet() {
       HashSet<String&gt; hints = new HashSet&lt;String&gt;()
       hints.add( HINT TIMEOUT );
       hints.add( SPEC HINT TIMEOUT );
       hints.add( HINT COMMENT );
       hints.add( HINT FETCH SIZE );
       hints.add( HINT CACHE REGION );
       hints.add( HINT_CACHEABLE );
       hints.add( HINT READONLY );
       hints.add( HINT CACHE MODE );
       hints.add( HINT FLUSH MODE );
       hints.add( HINT NATIVE LOCKMODE );
       hints.add( HINT FETCHGRAPH );
       hints.add( HINT LOADGRAPH );
       return java.util.Collections.unmodifiableSet( hints );
   }
   public static Set<String&gt; getDefinedHints() {
       return HINTS;
    }
   protected QueryHints() {
   }
}
```

对应值的介绍,除了注释,我在网上也找到了一些资料,讲的很详细:

https://www.thoughts-on-java.org/11-jpa-hibernate-query-hints-every-developer-know https://docs.jboss.org/hibernate/orm/4.3/javadocs/org/hibernate/jpa/QueryHints.html

2、在CustomerRepository中添加示例:

导入QueryHint的name的对应的值

import static org.hibernate.jpa.QueryHints.HINT_COMMENT;

```
/**
* 一个参数, 匹配两个字段
* @param name2
```

- * @Param pageable 分页参数
- * @return
- * 这里Param的值和=:后面的参数匹配,但不需要和方法名对应的参数值对应
- * 这里增加了@QueryHints注解,是给查询添加一些额外的提示
- * 比如当前的name值为HINT_COMMENT是在查询的时候带上一些备注信息

@QueryHints(value = { @QueryHint(name = HINT_COMMENT, value =
@Query("select c from Customer c where c.firstName=:name or c
Page<Customer> findByName(@Param("name") String name2,P

3、在CustomerController中添加示例:

```
/**
 * 分页
 * 应用查询提示@QueryHints, 这里是在查询的适合增加了一个comment
 * 查询结果是lastName和firstName都是bauer这个值的数据
 */
@RequestMapping("/pageable")
public void pageable(){
    //Pageable是接口, PageRequest是接口实现
    //PageRequest的对象构造函数有多个, page是页数, 初始值是0, size是
    Pageable pageable = new PageRequest(0,3, Sort.Direction.D
    Page<Customer&gt; page = repository.findByName("bauer"
    //查询结果总行数
    System.out.println(page.getTotalElements());
```

```
//按照当前分页大小,总页数
           System.out.println(page.getTotalPages());
           //按照当前页数、分页大小,查出的分页结果集合
           for (Customer customer: page.getContent()) {
               System.out.println(customer.toString());
           }
           System.out.println("-----
        }
注意到,这里除了方法调用了带有查询提示的方法以外,还对方法的Pageable参数进行了简单
实现——PageRequest,这个类包含了多个构造函数,可以根据自己的需求自由定制,对于排序
不分参考Sort那一篇。
参考:
官方文档:https://docs.spring.io/spring-data/jpa/docs/current/reference/html
API官方文档:http://docs.spring.io/spring-data/data-jpa/docs/current/api/
JPQL文档:http://www.blogjava.net/calmJava/archive/2011/04/01/347450.html
DEMO示例: https://github.com/icnws/spring-data-jpa-demo
附: PageRequest源码:
     * Copyright 2008-2014 the original author or authors.
     * Licensed under the Apache License, Version 2.0 (the "License")
     * you may not use this file except in compliance with the Licens
     * You may obtain a copy of the License at
           http://www.apache.org/licenses/LICENSE-2.0
     * Unless required by applicable law or agreed to in writing, sof
     * distributed under the License is distributed on an "AS IS" BAS
     * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express o
     * See the License for the specific language governing permission
     * limitations under the License.
     */
    package org.springframework.data.domain;
    import org.springframework.data.domain.Sort.Direction;
    /**
     * Basic Java Bean implementation of {@code Pageable}.
     * @author Oliver Gierke
     * @author Thomas Darimont
    public class PageRequest extends AbstractPageRequest {
       private static final long serialVersionUID = -454150993895608
       private final Sort sort;
        * Creates a new {@link PageRequest}. Pages are zero indexed,
        * page.
        * @param page zero-based page index.
        * @param size the size of the page to be returned.
       public PageRequest(int page, int size) {
           this(page, size, null);
       }
```

```
/**
 * Creates a new {@link PageRequest} with sort parameters app
 * @param page zero-based page index.
 * @param size the size of the page to be returned.
 * @param direction the direction of the {@link Sort} to be s
 * @param properties the properties to sort by, must not be {
 */
public PageRequest(int page, int size, Direction direction, S
    this(page, size, new Sort(direction, properties));
}
/**
 * Creates a new {@link PageRequest} with sort parameters app
 * @param page zero-based page index.
* @param size the size of the page to be returned.
 * @param sort can be {@literal null}.
public PageRequest(int page, int size, Sort sort) {
    super(page, size);
    this.sort = sort;
}
/*
 * (non-Javadoc)
 * @see org.springframework.data.domain.Pageable#getSort()
public Sort getSort() {
    return sort;
/*
 * (non-Javadoc)
 * @see org.springframework.data.domain.Pageable#next()
public Pageable next() {
    return new PageRequest(getPageNumber() + 1, getPageSize()
}
 * (non-Javadoc)
 * @see org.springframework.data.domain.AbstractPageRequest#p
public PageRequest previous() {
    return getPageNumber() == 0 ? this : new PageRequest(getP
}
/*
 * (non-Javadoc)
 * @see org.springframework.data.domain.Pageable#first()
*/
public Pageable first() {
    return new PageRequest(0, getPageSize(), getSort());
}
 * (non-Javadoc)
 * @see java.lang.Object#equals(java.lang.Object)
 */
@Override
public boolean equals(final Object obj) {
```

```
if (this == obj) {
                return true;
            }
            if (!(obj instanceof PageRequest)) {
                return false;
            }
            PageRequest that = (PageRequest) obj;
            boolean sortEqual = this.sort == null ? that.sort == null
            return super.equals(that) & & sortEqual;
        }
        /*
         * (non-Javadoc)
         * @see java.lang.Object#hashCode()
         */
        @Override
        public int hashCode() {
            return 31 * super.hashCode() + (null == sort ? 0 : sort.h
        }
        /*
         * (non-Javadoc)
         * @see java.lang.Object#toString()
         */
        @Override
        public String toString() {
            return String.format("Page request [number: %d, size %d,
                    sort == null ? null : sort.toString());
        }
    }
标签:
       APP
            Java
                   Hibernate
                            HTTPS
                                    Spring Data
```

▼ 评论

快来抢沙发吧!

② 提交